

Top 20 Chemicals with Largest TRI On-site and Off-site Disposal or Other Releases, 2002: Metal Mining (SIC 10)

On-site Disposal or Other Releases																	Total On-site Disposal or Other Releases Pounds	Total Off-site Disposal or Other Releases Pounds	Total On-site and Off-site Disposal or Other Releases Pounds
CAS Number Chemical	On-site Disposal to Class I Underground Injection				Other On-site Disposal or Other Releases								Total On-site Disposal or Other Releases Pounds	Total Off-site Disposal or Other Releases Pounds					
	RCRA				Fugitive Air Emissions Pounds	Point Source Air Emissions Pounds	Surface Water Discharges Pounds	Class II-V Wells Pounds	Land Treatment Pounds	Surface Impoundment Pounds	Other Land Disposal Pounds	Subtotal Pounds							
	Class I Wells Pounds	Subtitle C Landfills Pounds	Other On- site Landfills Pounds	Subtotal Pounds															
-- Arsenic compounds	0	0	1,760,907	1,760,907	16,106	5,926	2,542	896,600	0	122,024,501	259,632,886	382,578,561	384,339,468	333	384,339,801				
-- Zinc compounds	0	0	3,831,508	3,831,508	67,248	63,466	33,085	10,000,005	0	218,130,834	142,637,611	370,932,250	374,763,758	12,869	374,776,627				
-- Lead compounds	0	0	8,847,555	8,847,555	131,861	20,311	5,563	6,872,227	0	114,871,480	217,655,154	339,556,597	348,404,152	6,759	348,410,911				
-- Copper compounds	0	0	1,293,593	1,293,593	38,566	13,659	3,915	22,135	0	74,860,833	17,168,181	92,107,289	93,400,882	75,050	93,475,932				
-- Manganese compounds	0	0	19,342,614	19,342,614	7,204	856	84,482	0	0	15,939,521	8,826,828	24,858,891	44,201,505	58,185	44,259,690				
-- Antimony compounds	0	0	1,670	1,670	506	896	4,242	0	0	8,136,338	513,020	8,655,002	8,656,672	540	8,657,212				
-- Nitrate compounds	0	0	509,795	509,795	0	250	202,655	0	0	6,176,701	96,899	6,476,505	6,986,300	8,505	6,994,805				
-- Nickel compounds	0	0	6,017	6,017	1,823	945	3,781	101,419	0	4,371,524	122,315	4,601,807	4,607,824	430,080	5,037,904				
-- Chromium compounds	0	0	71,363	71,363	1,089	852	491	68,206	0	4,090,192	458,587	4,619,417	4,690,780	280,313	4,971,093				
-- Mercury compounds	0	0	304	304	284	8,768	25	8,939	1	1,618,541	3,127,680	4,764,237	4,764,542	50	4,764,592				
-- Cyanide compounds	0	0	135	135	49,817	3,605	1,965	3,200	0	4,123,808	16	4,182,411	4,182,546	5	4,182,551				
-- Vanadium compounds	0	0	0	0	3	296	250	0	0	4,027,000	0	4,027,549	4,027,549	0	4,027,549				
-- Barium compounds	0	0	930,636	930,636	4,614	425	0	0	0	36,000	2,900,000	2,941,039	3,871,675	0	3,871,675				
-- Cadmium compounds	0	0	7,457	7,457	480	1,702	1,046	0	0	2,676,609	77,562	2,757,399	2,764,856	291	2,765,147				
7440-47-3 Chromium	0	0	74,526	74,526	150	6	0	19,000	0	1,389,662	21,256	1,430,074	1,504,600	0	1,504,600				
-- Cobalt compounds	0	0	67	67	1,021	41	0	0	0	1,109,901	298,938	1,409,902	1,409,969	1	1,409,970				
7664-41-7 Ammonia	0	0	1,900	1,900	323,334	158,956	7,093	0	0	762,608	1,248	1,253,239	1,255,139	0	1,255,139				
7439-96-5 Manganese	0	0	52,984	52,984	2,527	255	0	0	0	574,378	1,756	578,916	631,900	281,000	912,900				
-- Thallium compounds	0	0	0	0	0	71	250	0	0	630,250	0	630,571	630,571	1	630,572				
7440-02-0 Nickel	0	0	0	0	40	0	0	0	0	565,647	251	565,938	565,938	0	565,938				

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at [www.epa.gov/tri/tridata/index.htm#pdr](http://www.epa.gov/tri/tridata/index.htm#pdr).

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Land Disposal (5.5.4). Off-site Disposal or Other Releases include from Section 6.2 Underground Injection (M71), RCRA Subtitle C Landfills (M65), Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wastewater Treatment (excluding POTWs) - Metals and Metal Category Compounds only (M62 or M61), Surface Impoundments (M63), Land Treatment (M73), Other Land Disposal (M79), Other Off-site Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.